

WHAT IS CLAIMED IS

claim 1/13
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1. A non-resilient flexible tubing for use in a cassette for a disposal system, said tubing being positioned in an annular space of the cassette and adapted to form discrete areas of enclosure of waste, said tubing comprising a high density polyethylene film resin with both a low melt index and a high density.

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2. The tubing of claim 1, wherein said film is a high density polyethylene film resin with a melt index in the range 0.04 g/10 min to 0.50 g/10 min.

3. The tubing of claim 1, wherein said film is a high density polyethylene film resin with a density in the range 0.90 g/cm³ to 0.99 g/cm³.

4. The tubing of claim 1, wherein said film is a high density polyethylene film resin with an Elmdorf tear strength in a mold direction in the range 9g to 20g.

5. The tubing of claim 1, wherein said film is a high density polyethylene film resin with an Elmdorf tear

strength in a transverse direction in the range 30g to 400g.

6. The tubing of claim 1, wherein said film is a
5 high density polyethylene film resin with a tensile
strength at break in a mold direction of 7,000 psi to
13,000 psi.

7. The tubing of claim 1, wherein said film is a
10 high density polyethylene film resin with a tensile
strength at break in a transverse direction of 6,000 psi to
10,000 psi.

8. The tubing of claim 1, wherein said film is a
15 high density polyethylene film resin with an elongation at
break in a mold direction of 250% to 500%.

9. The tubing of claim 1, wherein said film is a high density polyethylene film resin with an elongation at break in a transverse direction of 300% to 700%.

10. The tubing of claim 1, wherein said high density polyethylene film resin is formed into the tubing with a thickness in the range of 7 μ m to 30 μ m.

5 11. The tubing of claim 1, wherein the high density polyethylene film resin includes a colorant.

12. The tubing of claim 1, wherein the high density polyethylene film resin includes a deodorant.

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13. The tubing of claim 1, wherein the high density polyethylene film resin includes a fragrance.

14. A cassette for dispensing film in a waste disposal system comprising:

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a body having a top, said body defining an annular space therein, said body being adapted to rotate in a container of the system,

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a length of non-resilient flexible tubing positioned for use in a tight layer in said annular space, said

tubing being a film having odor control capability and
high tear strength,

wherein said tubing is dispensed through the top of
said body when said body rotates to seal said
tubing, and

wherein said film is formed of a high density
polyethylene film resin with both a low melt index and
a high density.

15. The cassette of claim 15, wherein said film has
said melt index in the range 0.04 g/10 min to 0.50 g/10
min.

16. The cassette of claim 15, wherein said film has a
density in the range 0.90 g/cm³ to 0.99 g/cm³.

17. The cassette of claim 15, wherein said film has
an Elmdorf tear strength in a mold direction in the range
9g to 20g.

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18. The cassette of claim 15, wherein said film has an Elmdorf tear strength in a transverse direction in the range 30g to 400g.

5 19. The cassette of claim 15, wherein said film has a tensile strength at break in a mold direction of 7,000 psi to 13,000 psi.

10 20. The cassette of claim 15, wherein said film has a tensile strength at break in a transverse direction of 6,000 psi to 10,000 psi.

15 21. The cassette of claim 15, wherein said film has an elongation at break in a mold direction of 250% to 500%.

22. The cassette of claim 15, wherein said film has an elongation at break in a transverse direction of 300% to 700%.

20 23. The cassette of claim 15, wherein said film is formed into said tubing with a thickness in the range of 7µm to 30µm.

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24. The cassette of claim 15, wherein the high
density polyethylene film resin includes a colorant.

25. The cassette of claim 15, wherein the high
5 density polyethylene film resin includes a deodorant.

26. The cassette of claim 15, wherein the high
density polyethylene film resin includes a fragrance.

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